

Estimated Abundance of **Wild** Adult Coho Spawners in the Oregon Coast Coho ESU

05/29/13

Based on Random Sampling Sites for Rivers, Dam count for N. Umpqua, and Traditional Surveys for Lakes.

Data Source:	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP
Geographic Scale	Spawner Abundance by Return Year													
ESU / Strata / Population	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
North Coast Strata:														
Necanicum River	126	752	133	512	269	181	416	97	575	351	359	4,832	2,047	2,377
Nehalem River	1,158	6,837	1,392	3,049	2,844	1,700	527	1,187	1,206	3,555	14,462	21,928	17,164	32,517
Tillamook Bay	80	1,577	176	571	1,105	341	733	437	358	1,831	2,178	1,944	13,334	13,008
Nestucca River	160	618	604	340	266	1,537	440	230	202	2,357	1,219	4,164	16,698	10,194
NC Dependents	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total	1,524	9,784	2,305	4,472	4,484	3,759	2,116	1,951	2,341	8,094	18,218	32,868	49,243	58,096
Mid Coast Strata:														
Salmon River	19	5	11	13	91	105	82	16	86	14	179	225	543	42
Siletz River	228	410	2,386	207	621	314	395	298	316	1,209	3,387	1,595	2,129	8,038
Yaquina River	318	317	528	458	2,040	4,723	4,578	419	510	2,563	637	3,589	23,800	16,484
Beaver Cr	90	484	618	275	675	308	1,296	497	401	1,511	1,464	1,832	3,217	5,552
Alsea River	775	1,011	6,273	694	828	441	1,060	601	108	1,341	3,363	3,228	9,073	10,281
Siuslaw River	2,269	2,808	3,554	4,600	3,159	6,161	7,234	501	1,020	2,980	6,532	10,606	55,445	29,003
MC Dependents	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total	3,699	5,035	13,370	6,247	7,414	12,052	14,645	2,332	2,441	9,618	15,562	21,075	94,207	69,400
Umpqua Strata:														
Lower Umpqua River	1,678	3,123	1,797	7,877	2,762	10,854	7,985	1,257	4,552	2,623	5,781	11,639	18,881	16,494
Middle Umpqua River	1,222	4,546	5,275	2,947	2,162	3,250	5,086	563	1,257	1,748	4,555	8,940	10,738	11,090
North Umpqua River ^a	355	1,301	1,579	906	899	1,293	1,069	577	765	1,194	1,677	2,634	3,368	2,862
South Umpqua River	2,934	2,233	435	3,723	1,081	4,715	7,040	937	3,177	3,011	2,581	11,871	10,517	4,337
Total	6,189	11,203	9,086	15,453	6,904	20,112	21,180	3,334	9,751	8,576	14,594	35,084	43,504	34,783
Lakes Strata: ^b														
Siltcoos	1,578	2,868	385	3,569	1,302	4,415	4,707	2,653	3,122	2,756	3,835	5,104	4,636	6,628
Tahkenitch	1,085	1,215	317	954	1,056	1,577	1,627	1,842	2,817	3,664	634	3,510	3,480	3,188
Tenmile	1,687	3,033	1,271	5,544	3,354	5,092	7,092	4,092	5,169	6,123	8,278	10,990	13,861	6,260
Total	4,350	7,116	1,973	10,067	5,712	11,084	13,426	8,587	11,108	12,543	12,747	19,604	21,977	16,076
Mid-South Coast Strata:														
Coos River	2,243	2,426	16,722	14,932	14,500	10,302	12,128	1,112	2,985	4,818	4,704	33,595	33,120	25,761
Coquille River	2,589	4,782	2,033	7,291	5,119	2,034	15,814	5,720	2,412	2,667	6,253	13,833	7,676	22,403
Floras Creek	0	0	0	0	2,653	1,351	1,519	482	879	670	1,477	5,664	3,272	952
Sixes River	58	35	92	253	238	77	194	143	558	56	136	95	95	86
MSDependent	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total	4,890	7,243	18,847	22,476	22,510	13,764	29,655	7,457	6,834	8,211	12,570	53,187	44,163	49,202
Oregon Coast ESU	20,652	40,381	45,581	58,715	47,024	60,771	81,022	23,661	32,475	47,042	73,691	161,818	253,094	227,557

n.a. = Not available.

Data Sources:

NMFS&OCCCP = Data for run years through 2003 is as reported in NOAA Technical Memorandum NMFS-NWFSC-91, and in the Oregon Coast Coho Conservation Plan (Appendix 2).

a = North Umpqua River Population: Abundance and wild fraction are based on counts at Winchester Dam, adjusted for fish removed by harvest and hatchery operations.

b = Coastal Lake Populations: Abundance is based on calibrated standard survey protocols developed in the 1950's and 1960's. Wild fraction is based on observations of marks on coho carcasses recovered on all spawning surveys in each year.

Estimated Abundance of **Hatchery** Adult Coho spawners in the Oregon Coast Coho ESU

05/29/13

Based on Random Sampling Sites for Rivers, Dam count for N. Umpqua, and Traditional Surveys for Lakes.

Data Source:	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP	NMFS&OCCCP
Geographic Scale	Spawner Abundance by Return Year													
ESU / Strata / Population	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
North Coast Strata:														
Necanicum River	84	501	89	342	179	120	277	64	383	19	19	280	96	158
Nehalem River	5,464	3,012	2,373	14,014	2,712	2,118	3,766	1,351	51	600	118	414	698	284
Tillamook Bay	145	1,498	142	1,146	817	755	246	44	26	147	299	175	373	121
Nestucca River	29	110	80	61	47	274	79	41	36	0	50	207	55	109
NC Dependents	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total	5,722	5,121	2,684	15,563	3,755	3,267	4,368	1,500	496	766	486	1,076	1,222	672
Mid Coast Strata:														
Salmon River	415	34	132	351	1,463	1,220	2,621	401	346	159	215	652	565	1,696
Siletz River	213	575	954	193	579	293	368	38	41	155	0	859	375	383
Yaquina River	63	63	105	91	408	945	1,526	110	134	4	1	171	0	0
Beaver Cr	0	0	0	0	0	0	405	147	119	0	46	282	143	0
Alsea River	422	550	2,214	377	451	240	577	327	1,624	730	0	692	181	0
Siuslaw River	674	1,434	1,717	1,278	1,904	1,406	4,136	174	362	213	0	0	250	56
MC Dependents	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total	1,787	2,656	5,122	2,290	4,805	4,104	9,633	1,197	2,626	1,261	262	2,656	1,514	2,135
Umpqua Strata:														
Lower Umpqua River	95	0	0	161	156	0	450	188	0	85	115	1,233	906	35
Middle Umpqua River	83	308	358	200	147	0	345	38	79	166	164	877	931	0
North Umpqua River ^a	1,258	2,430	3,170	1,513	990	1,756	3,743	1,379	3,379	1,979	7,585	14,094	6,695	8,884
South Umpqua River	530	992	79	673	1,442	555	7,040	187	1,430	198	329	1,554	0	0
Total	1,966	3,730	3,607	2,547	2,735	2,311	11,578	1,792	4,888	2,428	8,193	17,758	8,532	8,919
Lakes Strata: ^b														
Siltcoos	44	27	6	53	124	82	68	0	0	63	0	0	113	0
Tahkenitch	0	0	1	0	6	50	0	16	0	105	0	16	7	15
Tenmile	0	108	6	25	0	0	0	0	0	0	0	49	0	0
Total	44	135	13	78	130	132	68	16	0	168	0	65	120	15
Mid-South Coast Strata:														
Coos River	30	1,387	257	1,140	707	145	0	15	0	0	0	664	145	189
Coquille River	123	869	82	260	0	82	355	0	0	0	0	1,832	190	162
Floras Creek	n.a.	n.a.	n.a.	n.a.	240	400	109	43	79	60	0	88	296	86
Sixes River	5	3	8	23	22	7	17	13	50	5	12	182	9	8
MSDependent	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total	158	2,259	347	1,423	969	634	481	71	129	65	12	2,766	640	445
Oregon Coast ESU	9,677	13,901	11,773	21,901	12,394	10,448	26,128	4,576	8,139	4,688	8,953	24,321	12,028	12,186

n.a. = Not available.

Data Sources:

NMFS&OCCCP = Data for run years through 2003 is as reported in NOAA Technical Memorandum NMFS-NWFSC-91, and in the Oregon Coast Coho Conservation Plan (Appendix 2).

a = North Umpqua River Population: Abundance and hatchery fraction are based on counts at Winchester Dam, adjusted for fish removed by harvest and hatchery operations.

b = Coastal Lake Populations: Abundance is based on calibrated standard survey protocols developed in the 1950's and 1960's. Hatchery fraction is based on observations of marks on coho carcasses recovered on all spawning surveys in each year.